

Abstract

A method for controlling electrical conductivity of a work piece by emitting pulse light from a light source onto the work piece, the method comprising a step of controlling the light emission index S of the pulse light in a $400 \leq S \leq 900$ range, wherein light energy, pulse width and light emission index are represented by E J/cm², τ sec, and S , and the S is defined as $E/\tau^{1/2}$.